

ABSTRACT

ANCHORING DEVICE FOR USE WITH A HOISTING MACHINE

An anchoring device includes a hollow cylinder (2), a biasing unit (283), a shaft (3), a cam mechanism and a driven drum (5). The hollow cylinder (2) has top and bottom ends, a cylindrical wall (20), and a plurality of hook arms (28) pivoted to the cylindrical wall (20). Each lower end (282) of the hook arms (28) is extendible outward at the bottom end of the hollow cylinder (2) to an operative position. The biasing unit (283) retracts inward the lower hook ends (282). The shaft (3) extends coaxially through the top end of the hollow cylinder (2) and is movable axially relative to the hollow cylinder (2). The cam mechanism is connected to the shaft (3). The driven drum (5) is journaled on the shaft (3) and has a lower end adjacent to the hook arms (28), and a plurality of push members (52) formed on the lower end of the driven drum (5). The driven drum (5) is rotatable with step-like movement by the cam mechanism upon axial movement.

Figure 1